

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (currently amended): A communicating method in a network in which a feed and receivers are connected via a unidirectional line and the feed and the receivers are respectively connected to a bidirectional line via routers, comprising the steps of:

allowing a first router to transmit a first packet including a path control information and an IP header to a first receiver;

allowing said first receiver to transmit a second packet obtained by capsulating the path control information and the IP header of said first packet as a path control packet to a first interface of said feed via said first router, said bidirectional line, and a second router;

allowing said feed to extract said first packet by decapsulating said second packet, transmit said first packet to said second router from a second interface, and transmit said first packet to a second receiver from a third interface via said unidirectional line; and

allowing said second receiver to transmit said first packet to a third router;

wherein, in said first packet, a MAC header is added to the head, ~~an~~the IP header is subsequently added, and the path control information is located after said IP header.

Claim 2 (original): A method according to claim 1, further comprising the step of performing communication between said feed and said receiver via a communication path established according to said path information.

Claim 3 (canceled)

Claim 4 (original): A method according to claim 1, wherein said unidirectional line is a satellite line.

Claims 5-8 (canceled)

Claim 9 (new): A transmitting apparatus in a network in which a feed and receivers are connected via a unidirectional line and the feed and the receivers are respectively connected to a bidirectional line via routers, the transmitting apparatus comprising:

means for allowing a first router to transmit a first packet including a path control information and an IP header to a first receiver;

means for allowing said first receiver to transmit a second packet obtained by capsulating the path control information and the IP header of said first packet as a path control packet to a first interface of said feed via said first router, said bidirectional line, and a second router;

means for allowing said feed to extract said first packet by decapsulating said second packet, transmit said first packet to said second router from a second interface, and transmit said first packet to a second receiver from a third interface via said unidirectional line; and

means for allowing said second receiver to transmit said first packet to a third router;

wherein, in said first packet, a MAC header is added to the head, the IP header is subsequently added, and the path control information is located after said IP header.

Claim 10 (new): An apparatus according to claim 9, wherein said unidirectional line is a satellite line.